**Negative Selection Prediction**

Software Requirement Specification

For: Negative Selection Prediction

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1. Introduction

A tool that can determine the particular cell fate of T-Cells maturing in the Thymus via negative selection.

1. Overall Description

Input: Data about various undifferentiated T Cells in the proper environment conditions to have them undergo selection.

Output: List of T-Cells that survived negative selection and which ones survived and which ones didn’t. The chance of survival is based on a p value that results after determining the strength of binding to AIRE and then comparing with the average strength of binding of other T-Cells.

1. Requirements:

Raw Data of undifferentiated T-Cells to determine their potential binding coefficient. Afterwards setting a limit to how strongly it can be bound to AIRE.